



## SR2200 BLACK BOX RECEIVER

SR2200 is a high-end external receiver, intended for government, military, security, surveillance, media monitoring and industrial applications. The frequency range is 25 MHz to 3 GHz.

The external unit connects to an IBM PC compatible computer via a serial interface cable or USB.

### Connectivity

At the rear of the unit, there is a BNC connector for the antenna, USB and serial control ports, 10.7 MHz I.F. OUT (to connect for example the SDU5600 Spectrum analyzer), external speaker out, phones out, power and a ACC data output interface (discriminator & sound output).



On the front of the unit, there is a connector labeled "Display". This connector can be used for testing the SR2200 without the need of a PC, and as an extension for future developments.

### Using the SR2200 black box receiver has numerous advantages:

- Small size and low weight
- High sensitivity
- High dynamic range
- Availability of additional software functions (control software is currently under development).

Innovation and breakthrough hardware technologies making it possible to integrate radio with computing to an extent never seen before.

## **So what are the advantages of marrying the two?**

- The SR2200 (PC) front-panel functions are more flexible and powerful than those of traditional radio. There simply is not enough physical space on a fixed front panel of a traditional receiver for the multitude of settings and options which are available on the SR2200 black box receiver.
- Mobile applications: PC-controlled receivers are often used in mobile and portable applications. Connected to a laptop computer, they represent an excellent alternative to conventional spectrum analyzers or other dedicated monitoring equipment.
- The processing power of a PC can be used to process received radio signals through third-party software.
- See what is going on on the bands with a powerful spectrum scope.
- Firmware and control software is being continuously improved and new features are being introduced. (control software is currently under development).

<b>SPECIFICATIONS SR2200</b>				
Configuration	Triple conversion superheterodyne			
Frequency coverage	25 - 3GHz			
Reception modes	AM / NFM / WFM / SFM			
Sensitivity	Band	Sensitivity	IP3 (dBm)	S/N (dB)
IP3	25M-225MHz	NFM: 0.35uV (12dB SINAD)	1	40
		AM: 0.6uV (10dB S/N)		
		WFM: 2.0uV (12dB SINAD)		
S/N	225M-1.7GHz	NFM: 0.35V (12dB SINAD)	1	35
		AM: 0.8 uV (10dB S/N)		
		WFM: 2.0uV (12dB SINAD)		
	1.7GHz – 2.7GHz	NFM: 0.6uV (12dB SINAD)	1	32

	2.7GHz–3GHz	NFM: 1.5uV (12dB SINAD)	1	30
IF frequencies	1st IF	255.3MHz 744.3MHz		
	2nd IF	10.7MHz		
	3rd IF	455kHz		
Tuning steps	100 Hz to 100 kHz (10 Hz incremental)			
Selectivity	NFM:	+/-10kHz	60dB	
	AM/SFM:	+/-6kHz	60dB	
	WFM	+/-180KHz	60dB	
Spurious Sensitivity	60dB>			
Adjacent Selectivity	55dB >			
Dynamic Range	90dB>			
Unwanted Spurious Emissions	<-57dBm			
3rd IP	+1.0 dBm			
Frequency stability	±1ppm(0~50°C)			
Audio output	2W (8 Ohm) max. @ 10% distortion (no internal speaker!)			
Power requirements	12 - 16V DC, 0.5 A with 1W audio output			
Aerial connection	50 Ohm BNC			
IF output	10.7MHz			
Control interface	RS-232C / USB , 19200bps			
Operation temperature	0 to 50 degrees Celsius			
Dimensions	200(W) x 31(H) x 230(D) mm			
Weight	1.3kg			
Nominal filter bandwidths	6kHz, 15kHz, 300kHz.			
Memory channels	1000 (10 banks)			
Search banks	40			
Scan/Search Rate	25 steps per second.			
Pass frequencies	2000			
Priority channels	1			

Specifications subject to change without notice or obligation.

AOR, LTD.

[www.aorja.com](http://www.aorja.com)